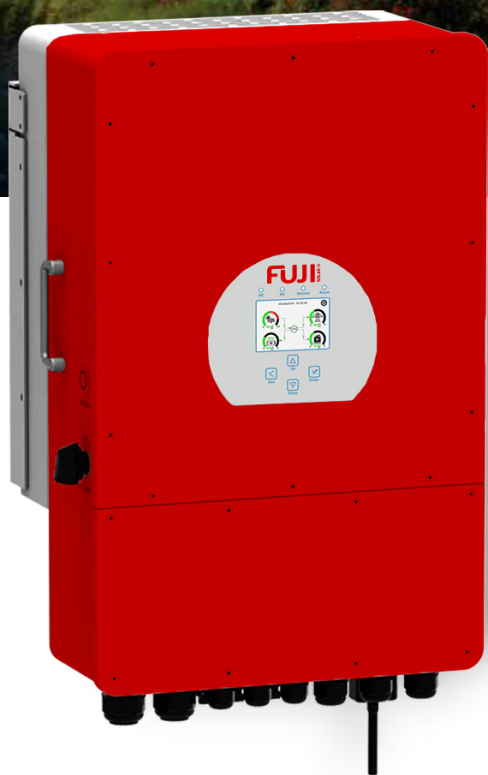




Three Phase Hybrid Inverter

FU-SUN-5/6/8/10/12/15/20/25K-SG01HP3-EU-AM2



FUJI SOLAR®

- 100** 100% unbalanced output, each phase; Max. output up to 50% rated power
-  DC couple and AC couple to retrofit existing solar system
- 10** *Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 50** Max. charging/discharging current of 50A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

| Model | SUN-5K-SG01 HP3-EU-AM2 | SUN-6K-SG01 HP3-EU-AM2 | SUN-8K-SG01 HP3-EU-AM2 | SUN-10K-SG01 HP3-EU-AM2 | SUN-12K-SG01 HP3-EU-AM2 | SUN-15K-SG01 HP3-EU-AM2 | SUN-20K-SG01 HP3-EU-AM2 | SUN-25K-SG01 HP3-EU-AM2 |
|---|--|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data | | | | | | | | |
| Battery Type | Lithium-ion | | | | | | | |
| Battery Voltage Range (V) | 160~700 | | | | | | | |
| Max. Charging Current (A) | 37 | | | | | | | 50 |
| Max. Discharging Current (A) | 37 | | | | | | | 50 |
| Number of Battery Input | 1 | | | | | | | |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS | | | | | | | |
| PV String Input Data | | | | | | | | |
| Max. DC Input Power (W) | 6500 | 7800 | 10400 | 13000 | 15600 | 19500 | 26000 | 32500 |
| Max. DC Input Voltage (V) | 1000 | | | | | | | |
| Start-up Voltage (V) | 180 | | | | | | | |
| MPPT Range (V) | 150-850 | | | | | | | |
| Full Load DC Voltage Range (V) | 195-850 | 195-850 | 260-850 | 325-850 | 340-850 | 420-850 | 500-850 | 625-850 |
| Rated DC Input Voltage (V) | 600 | | | | | | | |
| PV Input Current (A) | 20+20 | | | | 26+20 | | 26+26 | |
| Max. PV I _{SC} (A) | 30+30 | | | | 39+30 | | 39+39 | |
| No.of MPP Trackers | 2 | | | | | | | |
| No.of Strings per MPP Tracker | 1+1 | | | | 2+1 | | 2+2 | |
| AC Output Data | | | | | | | | |
| Rated AC Output and UPS Power (W) | 5000 | 6000 | 8000 | 10000 | 12000 | 15000 | 20000 | 25000 |
| Max. AC Output Power (W) | 5500 | 6600 | 8800 | 11000 | 13200 | 16500 | 22000 | 27500 |
| AC Output Rated Current (A) | 7.6/7.3 | 9.1/8.7 | 12.2/11.6 | 15.2/14.5 | 18.2/17.4 | 22.8/21.8 | 30.4/29 | 37.9/36.3 |
| Max. AC Output Rated Current (A) | 8.4/8 | 10/9.6 | 13.4/12.8 | 16.7/16 | 20/19.2 | 25/24 | 33.4/31.9 | 41.7/39.9 |
| Max. Three-phase Unbalanced Output Current(A) | 13 | 13 | 18 | 22 | 25 | 30 | 35 | 40 |
| Max. Continuous AC Passthrough (A) | 40 | | | | 80 | | | |
| Peak Power (off grid) | 1.5 time of rated power, 10 S | | | | | | | |
| Generator Input/Smart Load /AC Couple Current (A) | 7.6/40/7.6 | 9.1/40/9.1 | 12.2/40/12.2 | 15.2/40/15.2 | 18.2/80/18.2 | 22.8/80/22.8 | 30.4/80/30.4 | 37.9/80/37.9 |
| Power Factor | 0.8 leading to 0.8 lagging | | | | | | | |
| Output Frequency and Voltage | 50/60Hz; 3L/N/PE 220/380, 230/400Vac | | | | | | | |
| Grid Type | Three Phase | | | | | | | |
| Total Harmonic Distortion (THD) | <3% (of nominal power) | | | | | | | |
| DC Current Injection | <0.5% I _n | | | | | | | |
| Efficiency | | | | | | | | |
| Max. Efficiency | 97.60% | | | | | | | |
| Euro Efficiency | 97.00% | | | | | | | |
| MPPT Efficiency | 99.90% | | | | | | | |
| Protection | | | | | | | | |
| Integrated | Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection | | | | | | | |
| Over Voltage Category | DC Type II/AC Type III | | | | | | | |
| Certifications and Standards | | | | | | | | |
| Grid Regulation | VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150 | | | | | | | |
| Safety EMC / Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | | | | | | |
| General Data | | | | | | | | |
| Operating Temperature Range (°C) | -40~60°C, >45°C Derating | | | | | | | |
| Cooling | Smart Cooling | | | | | | | |
| Noise (dB) | ≤55 dB | | | | | | | |
| Communication with BMS | RS485; CAN | | | | | | | |
| Weight (kg) | 30.5 | | | | | | | |
| Cabinet Size (WxHxD mm) | 408×638×237 (Excluding Connectors and Brackets) | | | | | | | |
| Protection Degree | IP65 | | | | | | | |
| Installation Style | Wall-mounted | | | | | | | |
| Warranty | 5 Years (10 Years Optional) | | | | | | | |

*Note: The function of Multiple units work in parallel mode will be available in Q1 2023